

ABSTRACT OF THE INVENTION

An energy transfer multiplexer to control the flow of power or energy between an energy source and an energy load comprising a bi-directional inverter including a first bank or plurality of switches or first plurality of energy transfer control points and
5 a second bank or plurality of switches or second plurality of energy transfer control points operatively coupled by a series resonant transfer link to selectively control the direction of power or energy flow between the first and second bank or plurality of switches or the first and second plurality of energy transfer control points.